

G062
Mesityl Oxide [141-79-7]

Results of Testing

Chemical Name	CAS No.	Study Code/Type	Protocol/Guideline	Species	Exposure	Dose/Concentration	No. per Group	Results	Reference
Mesityl Oxide	141-79-7	HEGTOXCHRM Mammalian bone marrow micronucleus assay	40 CFR 798.5395	mice	parenteral	170, 340, 680 mg/kg	5/sex	Bone marrow depression was observed at 72 hours in high dose males; Bone marrow depression was negative for females.	57 FR 29319; 7/01/92; Docket OPPTS-44588
Mesityl Oxide	141-79-7	HEGTOXMUTA Reverse mutation assay	40 CFR 798.5265	<i>Salmonella typhimurium</i>	<i>in-vitro</i>	100-5000 µg/plate	Not applicable	The test material is negative for mutagenic activity under the conditions of this study.	57 FR 29319; 7/01/92; Docket OPPTS-44588
Mesityl Oxide	141-79-7	HERTOXTERA Combined developmental/reproduction toxicity	Non-TSCA Protocol/ Guideline (docket OPPTS-44592)	rats	inhalation; 6 hr/d, 7 d/wk for 36 to 49 exposures (females) and 49 exposures (males)	31, 103, 302 ppm	12/sex	No mortality was observed throughout the study. Reduction in food consumption, body weight and body weight gain, and nasal discharge were observed at all dose levels. Reduced activity, sialorrhea, focal chronic inflammation, and a reduced number of dams that delivered a litter were observed at 302 ppm. The LOAEC for maternal toxicity was 31 ppm. The NOEC for reproductive toxicity was 103 ppm.	57 FR 53898; 11/13/92; Docket OPPTS-44592